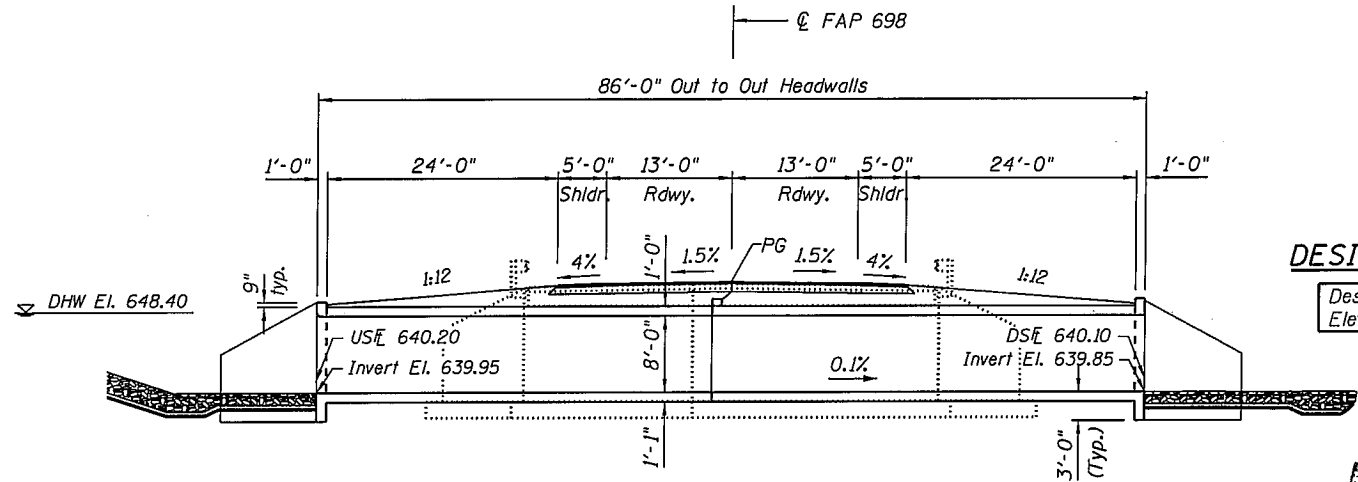


BENCHMARK: Railroad Spike on west side of 1st power pole south of bridge and east of IL Rte. 89. Elevation: 649.32

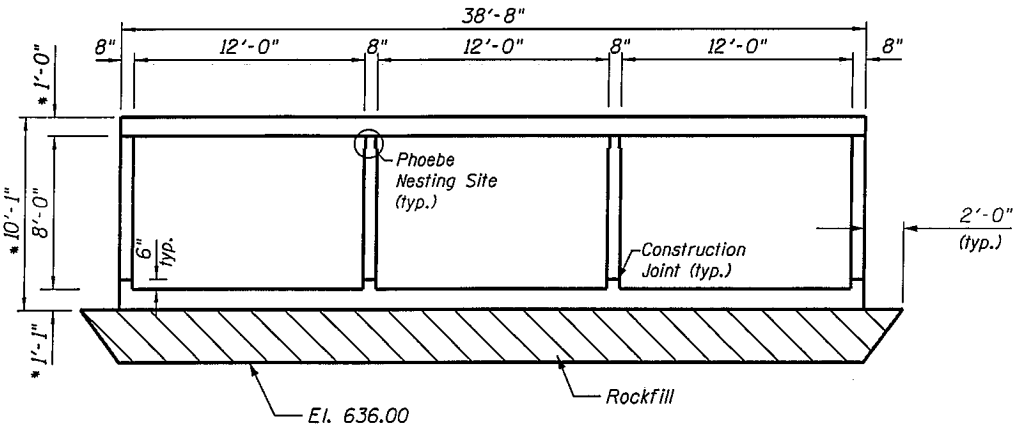
EXISTING STRUCTURE: S.N. 078-0025 to be removed. Built in 1928 as SBI 89. Section 122B, at Sta. 494+52. Single span, Reinforced Concrete Slab, 26'-0" back to back of abutments, 42'-0" deck width. Reinforced Concrete Closed Abutments on Timber Piles. Bridge to be removed. No salvage. One lane of traffic to be maintained in each direction utilizing Stage Construction with Temporary PPC Deck Beams.



LONGITUDINAL SECTION
(Looking South)

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Downstream	Upstream
	636.85	636.95



SECTION THRU BARREL

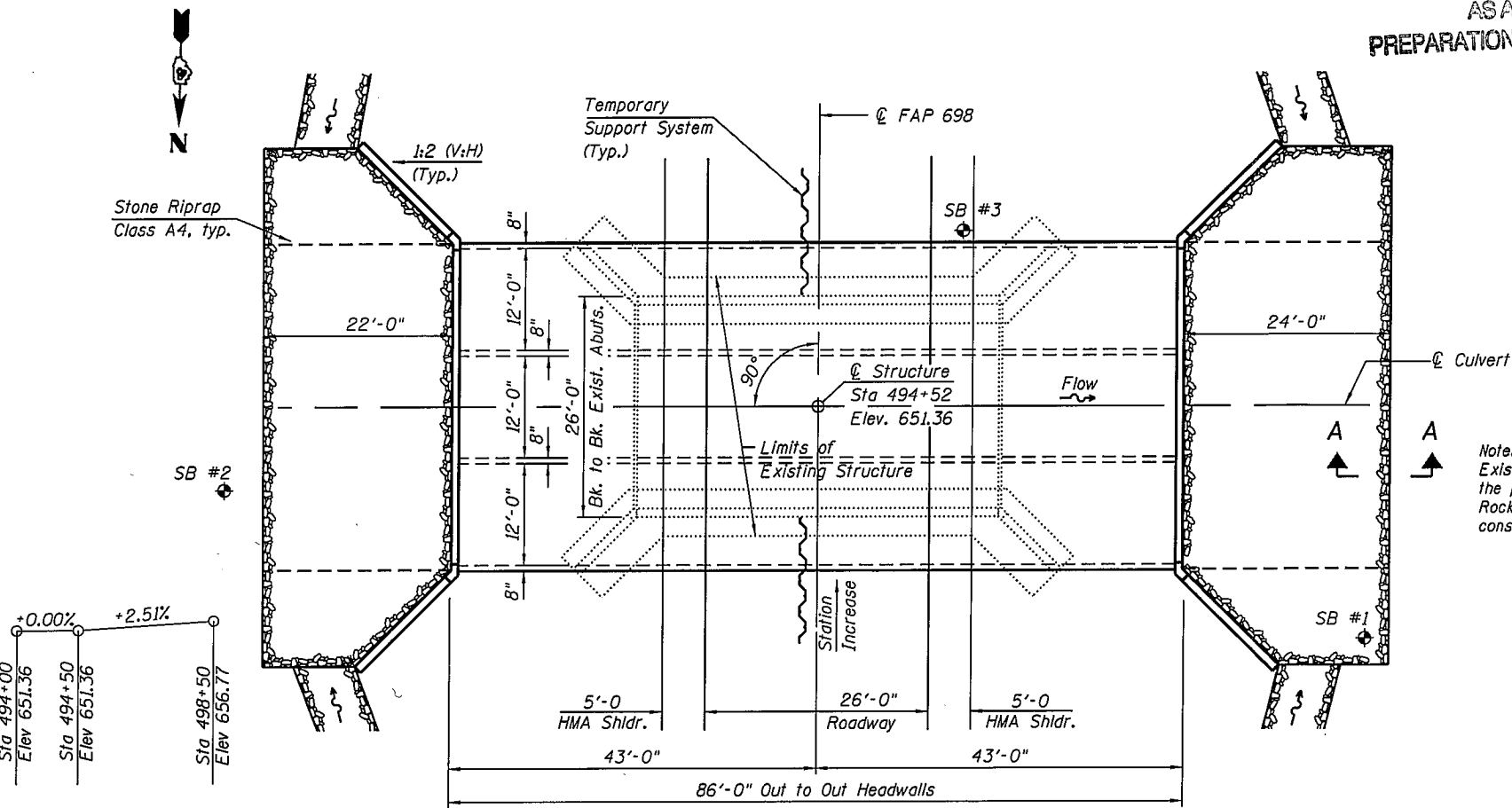
*Slab thickness may be refined in final design.

WATERWAY INFORMATION

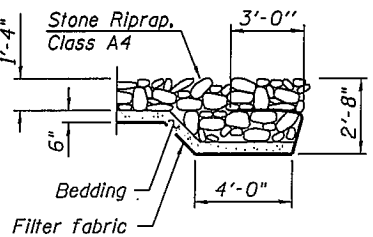
Existing Low Grade Elev. 651.17 @ Sta. 494+52									
Drainage Area = 6.71 sq mi			Proposed Low Grade Elev. 651.36 @ Sta. 494+52						
Flood	Freq. Yr.	0 C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist. Prop.
	10	963	168	261	647.4	647.5	0.7	0.4	648.1 647.9
Design	50	1580	192	288	648.4	648.5	1.6	0.8	650.0 649.3
Base	100	1850	199	288	648.8	648.8	2.0	1.1	650.8 649.9
Max. Calc.	500	2530	199	288	649.6	649.6	4.1	1.7	653.7 651.3

10 Year Velocity Through Existing Bridge = 5.7 ft/s
10 Year Velocity Through Proposed Bridge = 3.7 ft/s

APPROVED
SEP 17 2013
AS A BASIS FOR
PREPARATION OF DETAILED PLANS



PLAN



SECTION A-A

HIGHWAY CLASSIFICATION

FAP Rte. 698 - IL Rte. 89
Functional Class: Minor Arterial (Non-Urban)
ADT: 1800 (2009); 2500 (2022)
ADTT: 9% (2009);
DHW: 250
Design Speed: 55 m.p.h.
Posted Speed: 55 m.p.h.
Two-Way Traffic
Directional Distribution: 50:50

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

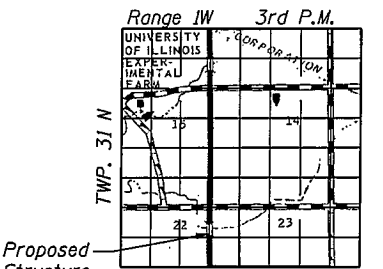
DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications,
6th edition

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)



LOCATION SKETCH

GENERAL PLAN AND ELEVATION - SHEET 1
ILLINOIS ROUTE 89 OVER CLEAR CREEK
F.A.P. RTE. 698 - SEC. 122-W, RS
PUTNAM COUNTY
STATION 494+52.00
STRUCTURE NO. 078-2011

FILE NAME =
...\\0780025-68893-TSL-001.dgn
THE UPCHURCH GROUP, INC.

USER NAME = Elgin 110
PLOT SCALE = 20.0000 1" / 10'
PLOT DATE = 9/6/2013 2:49:12 PM

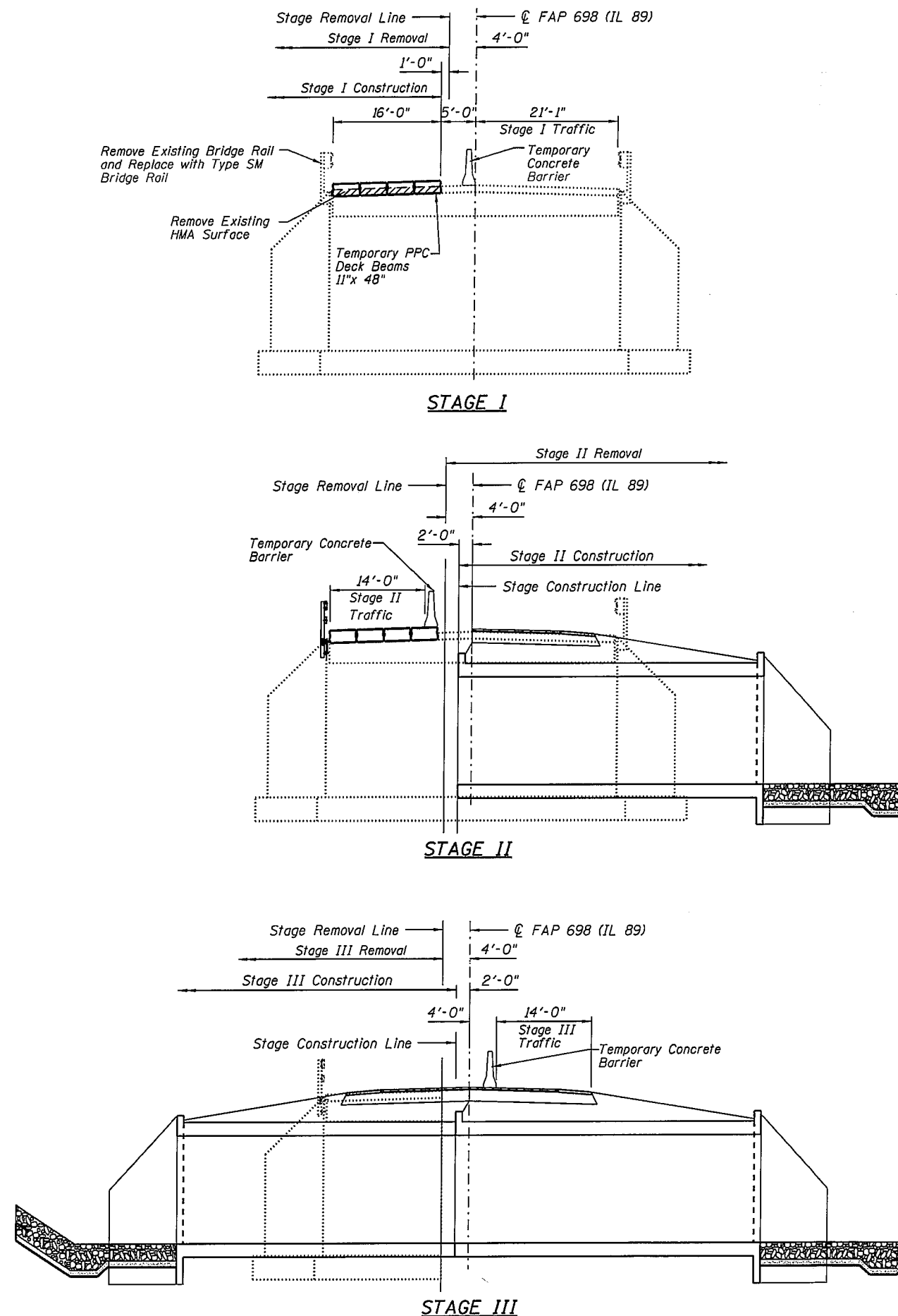
DESIGNED - MJS
CHECKED - LP
DRAWN - RMH
CHECKED - AB

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 2 SHEETS

F.A.P. RTE. 698
SECTION 122-W, RS
COUNTY PUTNAM
TOTAL SHEETS 2
SHEET NO. 1
CONTRACT NO. 68893
ILLINOIS FED. AID PROJECT



APPROVED

SEP 17 2013

AS A BASIS FOR
PREPARATION OF DETAILED PLANS

GENERAL NOTES:

All staging cross sections are looking South.

All dimensions are perpendicular to C Roadway unless noted otherwise.

STAGE I NOTES:

1. Remove existing 5" HMA Surface to expose existing concrete deck slab surface over a width of 16'-0".
2. Place fabric bearing pads, PPC Deck Beams, and drill and grout dowel rods into existing concrete deck slab.
3. Remove existing Bridge Rail and replace with Type SM Steel Bridge Rail for Stage II Traffic.

STAGE II NOTES:

1. Relocate Temporary Concrete Barrier and dowel to PPC Deck Beam.
2. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing Superstructure. The Contractor shall saw cut the upper portion of the existing abutment at the stage removal line before Stage II removal to ensure the remaining portion will not be prematurely damaged.

STAGE III NOTES:

1. Remove and Adjust Temporary Support System to connect to outside walls of new culvert.

GENERAL PLAN AND ELEVATION - SHEET 2
ILLINOIS ROUTE 89 OVER CLEAR CREEK
F.A.P. RTE. 698 - SEC. 122-W, RS
PUTNAM COUNTY
STATION 494+52.00
STRUCTURE NO. 078-2011

FILE NAME =	USER NAME = Elgin 110	DESIGNED - MJS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SHEET NO. 2 OF 2 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...0780025-68893-TSL-002.dgn		CHECKED - LP	REVISED -			698	122-W, RS	PUTNAM			
THE UPCHURCH GROUP, INC.	PLOT SCALE = 20x0.0000 1/4" = 1in.	DRAWN - RMH	REVISED -			CONTRACT NO. 68893					
	PLOT DATE = 9/6/2013 2:50:00 PM	CHECKED - AB	REVISED -			ILLINOIS FED. AID PROJECT					